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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
09/362,192	07/28/99	YAMAZAKI		S	0756-2011
_		hahama (o amo	\neg	EXAMINER	
022204 NIXON PEABODY, LLP		MM91/0430		SIMKOVIC,V	
8180 GREENSBORO DRIVE				ART UNIT PAPER NUMBER	
BUITE 800 MCLEAN VA 2:	2102			2812	
		·		DATE MAILE	
					04/30/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

		Application No.	Applicant(s)					
Office Action Summary		09/362,192	YAMAZAKI ET AL.					
		Examin r	Art Unit					
		Viktor Simkovic	2812					
Period fo	- The MAILING DATE of this communication appe or Reply	ears on the cover sheet with the	correspondence address					
I HE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36 (a). In no event, however, may a reply be y within the statutory minimum of thirty (30) of vill apply and will expire SIX (6) MONTHS fro	timely filed lays will be considered timely. In the mailing of all of this communication.					
1)🖂	Responsive to communication(s) filed on 19 A	April 2001 .	•					
2a) <u></u> □		is action is∖non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)	Claim(s) 45-66 is/are pending in the applicatio	n.						
	4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5)	Claim(s) is/are allowed.		ı					
6)⊠	Claim(s) 45-66 is/are rejected.	•						
7) 🗌	Claim(s) is/are objected to.							
8) 🗌	Claims are subject to restriction and/or	election requirement.						
Application	on Papers	•	•					
9) 🗌	The specification is objected to by the Examine	er.						
10)	The drawing(s) filed on is/are objected to	by the Examiner.						
	The proposed drawing correction filed on		oproved.					
	The oath or declaration is objected to by the Ex	-						
Priority u	nder 35 U.S.C. § 119							
13)⊠	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. δ 1196	a)-(d) or (f)					
	☑All b)☐ Some * c)☐ None of:	, , , , , , , , , , , , , , , , , , ,	a) (a) 51 (i).					
	1.⊠ Certified copies of the priority documents	have been received						
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priori							
	application from the International Burdee the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).	-					
	Acknowledgement is made of a claim for domes							
\ 44 aab 44	a)							
Attachment(í							
6) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>5</u>	19) Notice of Informa	ary (PTO-413) Paper No(s) Il Patent Application (PTO-152)					
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DETAILED ACTION

Claim Objections

Claim 45 is objected to because of the following informalities: the second line of the claim is duplicated. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 47, 54, and 62 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear what is meant by the phrase "without melting through a solid state". The Examiner will interpret this as meaning —without melting —.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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Claims 45, 47-48, 60, 62-63 are rejected under 35 U.S.C. 102(b) as being anticipated by Fonash et al. Fonash et al. teach a method for manufacturing a semiconductor device comprising the steps of:

forming an initial semiconducting film;

subjecting said film to oxygen plasma;

crystallizing said film to obtain a crystalline semiconducting film.

See column 3, lines 11-17 and 39-53, and column 4, lines 40-67.

Claims 46, 49-59, 61, 64-66 are rejected under 35 U.S.C. 102(e) as being anticipated by Miyasaka ('516). Miyasaka teaches a method of forming a semiconducting device comprising the steps of:

contacting a material for promoting crystallization to at least a part of an initial semiconducting film;

forming the initial semiconducting film;

subjecting said film to oxygen plasma;

crystallizing said film to obtain a crystalline semiconducting film, by irradiating with a laser light.

See column 38, lines 26-33 and 38-61, and column 39, lines 30-34. Note specifically that in column 38, lines 26-33, Miyasaka discloses that the underlayer is processed with hydrogen and oxygen plasmas to promote better adhesion with the semiconducting film, which leads to better crystallization. Thus this underlayer is treated to promote crystallization.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Viktor Simkovic whose telephone number is 703-308-6170. The examiner can normally be reached on Mon - Fri, 9:00 - 6:00, except every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on 703-308-3325. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

Viktor Simkovic April 26, 2001

Supervisory Patent Examiner
Technology Center 2800